

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	37	(liquid ambient heat\$3 first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L2	37	(liquid ambient first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:12
L3	71	(liquid first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L4	34	3 not 1	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L5	43	(ambient first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:23
L6	521	(ambient first temperature laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24
L7	478	6 not 5	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24
L8	10	7 and "347"/\$.ccis.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24

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L1	37	(liquid ambient heat\$3 first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L2	37	(liquid ambient first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:12
L3	71	(liquid first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L4	34	3 not 1	US-PGPUB; USPAT	AND	ON	2007/07/06 09:11
L5	43	(ambient first temperature photon laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:23
L6	521	(ambient first temperature laser second).clm.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24
L7	478	6 not 5	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24
L8	10	7 and "347"/\$.ccls.	US-PGPUB; USPAT	AND	ON	2007/07/06 09:24
L9	110173	(layer substrate) same ((absorb\$3 concentrate) with (laser light beam optical photon energy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:00
L10	169	347/51,52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:00
L11	29	L9 and L10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:00
L12	2674	347/51,54,56,61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:01
L13	45	laser same (resistor) and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:00
L14	3537	347/20,51,54,56,61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:01
L15	100	9 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:01
S1	2	"20050225598"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 09:21
S2	1	2005-732867.NRAN.	DERWENT	OR	ON	2006/03/03 07:49

## EAST Search History

S3	296	347/42.ccls.	USPAT	OR	ON	2006/03/03 08:14
S4	112	piezoelectric and S3	USPAT	OR	ON	2006/03/03 08:14
S5	5	((("5,021,808") or ("6,056,388") or ("6,177,151") or ("6,270,194") or ("6,474,783") or ("2003017277"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/24 10:45
S6	3	((laser photon) and heat\$3) and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 09:51
S7	201	huffman.xa. and "347"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 10:41
S8	2290	347/51,54,56,61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 11:01
S9	182	laser same (heater resistor) and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 10:46
S10	39	laser same (resistor) and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 10:46
S11	4	("5521140").URPN.	USPAT	OR	ON	2006/04/24 10:52
S12	2	("4772582"   "5352651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 10:59
S13	16	((laser near5 absorb\$3) and heater) and S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 11:01
S14	1	((laser near5 absorb\$3) and pre\$heat\$3) and S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 11:02
S15	65874	"347"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 11:02
S16	16	S13 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 11:02
S17	1	((laser near5 absorb\$3) and pre\$2heat\$3) and S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 11:03
S18	47	((laser near5 absorb\$3) and pre\$2heat\$3) and S15	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 11:03
S19	2290	347/51,54,56,61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:08

## EAST Search History

S20	65874	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:08
S21	1255	((photon with (absorb\$4 absorpt\$4)) and resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:11
S22	1	S19 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:09
S23	64	(photon with (absorb\$4 absorpt\$4)) same (heat\$3 with (ink liquid fluid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:15
S24	2	S20 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:12
S25	1	2005-732867.NRAN.	DERWENT	OR	ON	2006/04/24 13:13
S26	1005	(laser with (absorb\$4 absorpt\$4)) same (heat\$3 with (ink liquid fluid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:50
S27	116	S20 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:18
S28	92	S27 and electric\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:19
S29	16	("3832579"   "4336544"   "4351617"   "4480259"   "4490728"   "4723129"   "4847639"   "5021808"   "5219785"   "5255016"   "6352535"   "6402304"   "6457815"   "6464333"   "6474783"   "6481817").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 13:47
S30	9	("5541629"   "5604519"   "5644342"   "5984455"   "6102515"   "6176569"   "6190000"   "6286922"   "6299292").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 13:48
S31	6	((photon laser) with (absorb\$4 absorpt\$4)) same (pre\$3heat\$3 with (ink liquid fluid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:05
S32	100	((photon laser) with (absorb\$4 absorpt\$4)) and (pre\$3heat\$3 with (ink liquid fluid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:50
S33	1	jp-04001051-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:52

## EAST Search History

S34	1	((photon laser) with (absorb\$4 absorpt\$4)) same (pre\$3heat\$3 with (electric\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:54
S35	7	((photon laser) with (eject\$3 fir\$3)) same (pre\$3heat\$3 with (ink liquid fluid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:08
S36	3	S20 and S35	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 13:55
S37	46667	(layer substrate plate) with ((heating electric resistor) and (photon laser))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:02
S38	1812	S20 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:09
S39	6987	(layer substrate plate) with ((heating and (electric resistor)) and (photon laser))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:03
S40	429	S20 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:04
S41	11594	((photon laser) with (absorb\$4 absorpt\$4) with (layer plate substrate)) and (heat\$3 thermal adj (element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:06
S42	467	S20 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:07
S43	12	S20 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:09
S44	10	(US-20050225598-\$).did. or (US-5748211-\$ or US-5618337-\$ or US-6012800-\$ or US-5172134-\$ or US-5521140-\$ or US-4032929-\$ or US-7025442-\$).did. or (JP-02147346-\$).did. or (US-20050225598-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/04/24 14:14
S45	7	S44 and nozzle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:15
S46	4	("5521140").URPN.	USPAT	OR	ON	2006/04/24 14:16
S47	4	("5521140").URPN.	USPAT	OR	ON	2006/04/24 14:18

## EAST Search History

S48	2	("4772582"   "5352651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 14:18
S49	508	347/42.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 09:48
S50	257	(number with nozzles) and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:06
S51	130	347/51.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 09:49
S52	1	S50 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 09:49
S53	85	(laser photon) and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:00
S54	51	((laser photon) and electric\$4) and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:00
S55	44	((number with nozzles) with array) and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:06
S56	0	"number of nozzles" and "347"/\$.ccls. and silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:53
S57	119	(nozzle with array with number) and silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:55
S58	508	347/42.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:53
S59	3	S57 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:54

## EAST Search History

S60	34	(nozzle with array same number same density) and silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:56
S61	65922	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:56
S62	1207	nozzle with density with number	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:56
S63	712	S61 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:56
S64	471	S62 and resolution	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 10:56
S65	412	S61 and S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 11:01
S66	970	((("1000" "2000" "3000" "4000" "5000" "6000" "7000" "8000" "9000" "10000") with (nozzle orifice)) and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 11:02
S67	51	((("1000" "2000" "3000" "4000" "5000" "6000" "7000" "8000" "9000" "10000") with (nozzle orifice)) and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 11:42
S68	44	S67 and (color black cyan magenta yellow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/25 11:43
S69	87907	(laser light beam optical photon energy) same ((absorb\$3 concentrate) with (layer substrate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:55
S70	102621	(layer substrate) same ((absorb\$3 concentrate) with (laser light beam optical photon energy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:55

## EAST Search History

S71	68208	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:55
S72	1673	S70 and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:55
S73	155	347/51,52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:56
S74	25	S70 and S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 09:56
S75	53	((modul\$2 flex\$4) with carriage) same (print\$3head with type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 09:25
S76	98	((modul\$2 flex\$4) with printer) same (carriage with type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 09:25
S77	9	(peter with howard).in. and Hewlett.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 11:01
S78	9	(peter with howard).in. and Hewlett.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 11:03
S79	240	(peter with howard).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 11:03
S80	26	S79 and laser	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 11:07
S81	1225	(laser heat\$3 (photon or optical) first second).clm.	US-PGPUB	AND	ON	2007/04/05 11:11
S82	3	((print with head) laser heat\$3 (photon or optical) first second).clm.	US-PGPUB	AND	ON	2007/04/05 11:12
S83	0	((print with head) laser heat\$3 (photon or optical) first second fluid).clm.	US-PGPUB	AND	ON	2007/04/05 11:12
S84	141	(laser heat\$3 (photon or optical) first second fluid).clm.	US-PGPUB	AND	ON	2007/04/05 11:12



## EAST Search History

S85	1	10/822956	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 08:48
S86	23	(peter with guy with howard).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 08:49
S87	9	(peter with guy with howard).in. and hewlett.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 08:49